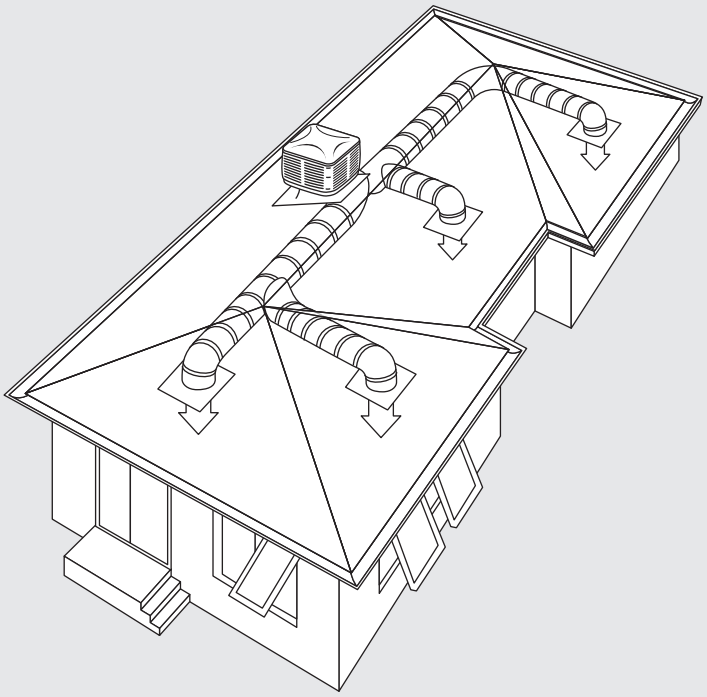
MODEL

Rinnai S Series



Evaporative Air Coolers

Installation Manual

Rinnai

This appliance must be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS/NZS 3000
- Local Regulations and Municipal Building Codes including local OH&S requirements

This appliance must be installed, maintained and removed only by an Authorised Person.

For continued safety of this appliance it must be installed and maintained in accordance with the manufacturer's instructions.

WARNINGS AND IMPORTANT INFORMATION

IMPORTANT

READ ALL INSTRUCTIONS BEFORE INSTALLING OR USING THE APPLIANCE.

Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

WARNINGS: **WHEN IGNORED, CAN RESULT IN SERIOUS INJURY OR DEATH.**

CAUTIONS: **WHEN IGNORED, CAN RESULT IN MINOR INJURY OR PRODUCT DAMAGE.**

SHALL / MUST / IMPORTANT: **INDICATES A MANDATORY REQUIREMENT OF THIS MANUAL.**

SHOULD: **INDICATES A RECOMMENDED REQUIREMENT OF THIS MANUAL.**

Any deviations from these instructions may, at the discretion of Rinnai, void the warranty. As a result, the customer and/or installer may be charged a fee for product non-warranty related call outs. Also, note that failure to comply with these instructions may preclude Rinnai from being able to service the unit.

DISCLAIMER: **This document is a guide only. Laws, regulations and industry standards can vary between States and Territories.**

Accordingly, this guide MUST BE read in conjunction with, and subject to, all laws, regulations and industry standards applicable in the State or Territory in which the products are installed.

You MUST ensure that the installation of the products will comply with those laws, regulations and standards, and that the products recommended to customers are fit for the purpose for which they are intended.

WARNING

REGULATORY / INSTALLATION

This appliance shall be installed in accordance with:

Manufacturer's Installation Instructions.

Current AS/NZS 3000 (electrical codes).

Local Regulations and Municipal Building Codes including local OH&S requirements.

Local water authority regulations

Duct fixing regulations, EPA guidelines and AS HB276-2004 "A Guide to Good Practice"

ALWAYS comply with the following precautions to avoid dangerous situations and to ensure optimum performance.

This appliance MUST BE installed, maintained and removed by an Authorised Person.

This appliance is heavy, use 2 people or mechanical lifting device. Improper lifting may result in serious injury.

Take care when opening or unpacking this appliance. Failure to do so may result in serious injury or product failure.

DO NOT modify the electrical wiring of this appliance. If the control power wiring is damaged or deteriorated then it MUST BE replaced by an authorized person. Failure to do so may result in electric shock, fire, serious injury or product failure.

DO NOT install or service the Cooler during adverse weather conditions, or drain water onto the roof where it could cause a slippery and hazardous work environment.

MODELS COVERED IN THIS MANUAL

Rinnai S Series	S10	S20	S30

TABLE OF CONTENTS

1. GENERAL GUIDELINES

1.1 UNPACKING THE COOLER

The unit is supplied on a pallet and enclosed with protective packaging.

To unpack:

- Carefully remove the outer packaging and any retaining brackets/straps that secure the cooler to the pallet.

Rinnai coolers **MUST BE** installed in accordance with these instructions and related regulations, codes, standards, and authorities. These include but may not be limited to:

- AS 3500.2 - Plumbing & Drainage
- AS 4254 - Ductwork for air-handling systems in buildings
- Local Building Regulations
- HB 276 - A Guide to Good Practice
- Environment Authorities
- Local Plumbing and Electricity Authorities
- Building Code of Australia (BCA)

1.2 UNLOADING THE COOLER

When lifting the cooler onto the roof, ensure the lifting equipment is in good operating condition and capable of lifting the total weight. Be sure there is a clear area to place the cooler down, which is within reach of the lifting equipment.

1.3 COOLER POSITIONING

The Cooler shall be installed in a position that allows adequate and safe access for service, and enables only fresh outside air to be drawn into the unit. The cost of any equipment and additional labour involved in accessing cooler installations will not be accepted by Rinnai.

Avoid positioning the cooler near any source of smoke, dust or objectionable fumes so that only fresh outside air will be drawn into it. Coolers should not be sited close to the windows or bedrooms of neighbouring houses.

The cooler shall not be installed within a 5m (6m in WA) radius of a sanitary vent, 1.5m radius from a gas appliance flue terminal and 3m horizontal radius from a wood stove flue terminal.

1.4 WEATHER PROOFING

All ductwork, electrical cables and water pipes **MUST BE** flashed and sealed, to prevent water entry into the building. Exposed ductwork **MUST BE** weatherproofed and coated with reflective aluminium paint.

1.5 INSULATION

It is important that ducting should be well insulated. It is mandatory under some building codes to install insulated, fire rated ducting on Evaporative Cooling systems. Check with your local authority.

1.6 INSTALLING DUCTWORK

The duct system should be designed and installed in accordance with the following:

- These installation instructions.
- Standard engineering practices.
- Rinnai Sizing Guide and Installation Guidelines.

1.7 SYSTEM

The installation unit **MUST** comply with all laws, regulations and industry standards applicable in the state or territory in which the products are installed.

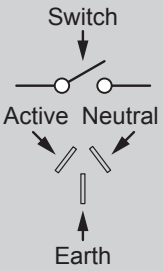
2. COOLER SERVICE REQUIREMENTS

IMPORTANT

A qualified electrician MUST install the 240 Volt wiring according to local regulations.

Switch OFF the power and unplug the Cooler before touching any wiring. If any electrical wiring is damaged, it MUST BE replaced by the manufacturer, its service agents or an electrically qualified technician, in order to avoid a hazard.

The electricity supply MUST BE 240 Volt / 50 Hertz, and from an authorised power supplier. Generators should NEVER be used, as their output may be incompatible with or damage the Cooler's electronic control system.



2.1 ELECTRICAL POWER SUPPLY TO THE COOLER

The Cooler is pre-wired with a 3-pin plug and lead, and should be plugged into a 240 Volt **(10 Amp for S10 and S20 models, 15 Amp for S30 model)** fixed switched socket outlet located within the roof cavity, in close proximity to the dropper duct. The fixed switched socket outlet should be wired back to the meter box on a dedicated power circuit.

2.2 WATER SUPPLY TO THE COOLER

The Cooler is designed to operate with a water supply pressure limited to 150-600 kPa.

If the supply pressure is excessive, a pressure-reducing regulator will be required. If the pressure is insufficient the Cooler's operation will be compromised. In areas subject to water pipes freezing, provision **MUST BE** made to drain water piping to prevent damage to the Cooler.

- Ensure the supply piping has been flushed before connecting it to the Cooler.
- A registered licensed plumber **MUST** install the water supply piping and connection to the Cooler in accordance with the local water supply regulations.
- A bi-directional isolating valve on the supply pipe **MUST** be placed external and adjacent to the unit, not inside the ceiling. This **MUST BE** provided to facilitate isolation of the water or to disconnect the water supply piping when servicing.
- Non-return isolating valves on the water supply are not recommended as they may cause damage or lock up the Cooler's inlet mechanism where high lock-up pressures or freezing water in pipes may occur.
- For the owner's convenience, an additional isolating valve may be provided at ground level to isolate the water supply.
- The water supply pipe **MUST BE** supported and secured so as not to place strain on the Cooler's water connection fittings or cause water hammer noise.
- Water quality should be checked and filtration fitted where necessary e.g. tank or bore water.

2.3 INSTALLING THE WALL CONTROL

The Rinnai S Series Wall Control is part of a sophisticated control system. To operate effectively, the wall control **MUST BE** positioned correctly as follows:

- **Install the wall control within the area being cooled:**

  It is important that the Wall Control is placed in a position that will provide the most accurate reading of the temperature within the area being cooled.

- **Attach to an internal wall:**

  The temperature difference on an external wall can affect the reading, so always mount the wall control on an internal wall.

  Also keep the hole in the wall for your wiring as small as possible to prevent draughts from within the wall cavity affecting the temperature sensing.

- **Get the height right:**

  The Wall Control should be approximately 1500mm above floor level.

- **Avoid hot spots:**

  Keep it as far away as possible from heat sources, e.g. above electrical equipment, direct sunlight and walls backing onto wall-ovens and stoves.

- **Avoid cold spots:**

  Ensure that the Wall Control is not affected by draughts coming through doorways, windows and stairwells, and is not placed too close to cooling outlets.

- **Avoid dead spots:**

  Don't site it in areas with no or little circulation, e.g. behind doors, in corners or alcoves.
- **Interference from other electrical connections:**

  Ensure the thermostat and wiring are kept away from other electrical, data and antenna cables.
- **Use the right cable:**

  Use only the cable supplied with your S Series Wall Control.
- **Connect the cable correctly:**

IMPORTANT

Viewing the controller from the back, plug the cable into right hand communication port.

The left hand communication port is NOT in use on this model.

2.4 BENDS AND ELBOWS

- Where square ducting elbows are to be used, install turning vanes within the elbow to aid airflow.
- Use unrestricted ductwork with smooth changes of duct cross section.
- Bends in ducting should have a large radius and branches should have shallow angles.

2.5 DAMPERS

Dampers may be required to balance the air distribution of the duct system.

2.6 CLEARANCES - ROOF MOUNTED EVAPORATIVE COOLER POSITIONING

The cooler must be installed in a position that allows for optimal performance and adequate and safe access for service, as per installation guidelines and any applicable regulations.

Roof mountable items such as photovoltaic solar panels positioned in front or around the cooler may prohibit service access when the below clearances are compromised. The relocation of such items for service access is the sole responsibility of the product owner.

Extra service charges may apply for the cost of any equipment or additional labour involved in accessing the cooler if these guidelines are not met.

These extra charges apply to both product warranty claims, general repairs and service maintenance calls.

MINIMUM REQUIRED CLEARANCES (m)	
Front of cooler to roof edge	1.5
Rear and two sides	1.0

Working at heights requires additional safety precautions, and the following should be considered when determining the location of an evaporative cooler.

- Ensure there is a clear pathway from the roof access point to cooler
- Remain clear of solar panels or other roof mounted fixtures that would adversely affect the required service clearances or safe access to the cooler
- For Multi Storey Flat Roof
  - □ Maintain a safe distance from a fall edge (>3m)
  - □ Consider installing a roof hatch to avoid extension ladders or two person job requirements

Certain job sites will automatically incur extra charges for safe service access when special access arrangements must be made. These include but are not limited to:

- A roof pitch of >35° (metal or glazed tile) or a roof pitch of 40° (non-glazed tile)
- No provision for safe and secure ladder access
- The cooler is located too close to a fall edge
- The roof access point is 6m above ground level
- The structure is unsound

All service works are governed by the Rinnai Australia Pty Ltd Safe Work Method Statements (SWMS) for Evaporative coolers and Working at Heights.

3. COOLER INSTALLATION

All Rinnai S series models are designed to mount onto a 550mm x 550mm dropper duct. The dropper duct can be either plastic or sheet metal, with or without a 15-20mm out turned flange.

3.1 DROPPER DUCT INSTALLATION GUIDELINES

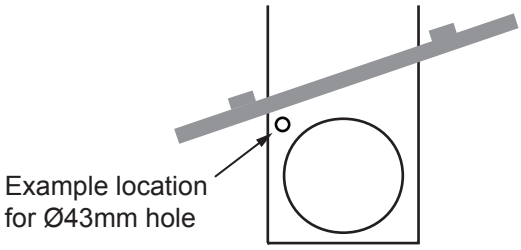
- The dropper duct on which the Cooler is mounted **MUST BE** properly secured to the roof structure or timbers.
- Ensure the dropper duct does not contact the ceiling joists or other structural members that can transmit vibration.
- If possible, the dropper duct should be positioned to the rear or on the service side of the home.
- It should also be as far down the roof as practicable.
- Rinnai recommend installing a diffuser or cone in the base of the dropper box. This will assist distributing the airflow evenly into the duct system and can also reduce noise levels.
- The power and communication loom is required to enter the ceiling space in the same corner as the cooler control box. A grommet is supplied to assist with this and it requires a Ø43mm hole (see diagram in 3.2 below).

3.2 FITTING A METAL DROPPER DUCT TO THE ROOF

Mount the dropper duct at a suitable height above the rafter to ensure there is enough clearance at the rear of the S Series with roofing material in place.

Dropper duct shall be secured on all four sides to supporting framework.

(see diagram right)

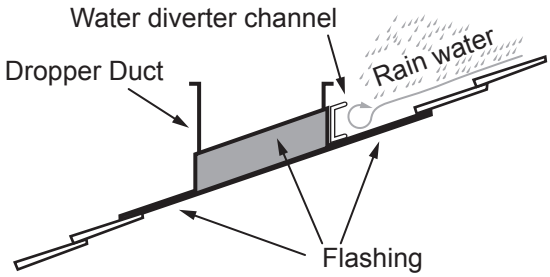


3.3 FIX AND SEAL THE ROOF FLASHING

The roof flashing **MUST BE** fixed and sealed to the dropper duct to prevent water entry into the building.

Installations where the Cooler is more than 4000mm downstream from the roof peak should be fitted with an additional water-diverting channel on the dropper duct high side, that extends beyond the dropper duct sides by at least 50mm.

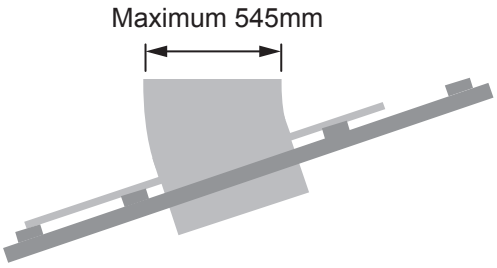
(see diagram right)



3.4 FITTING A PLASTIC DROPPER & FLASHING COMBINATION TO THE ROOF

The plastic dropper duct and flashing combination shall be installed in accordance with the supplier's installation instructions.

(see diagram right)



NOTE **The outer dimension of the plastic dropper duct on which the S Series mounts shall be no greater than 545mm x 545mm square.**

3.5 SECURING FOR LIFTING

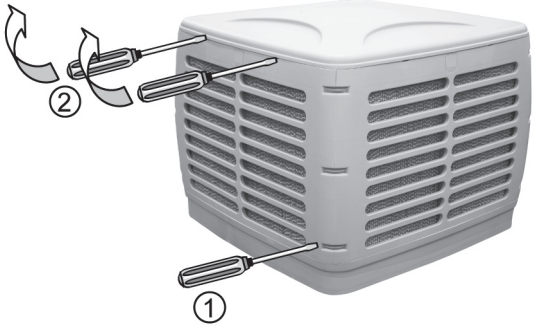
The S Series cooler can be secured for lifting in the following way.

1. Levering out the retaining clips, three each corner (1).

   (see diagram right)

2. For each pad insert two flat head screw drivers as shown, lever up and remove pad (2)

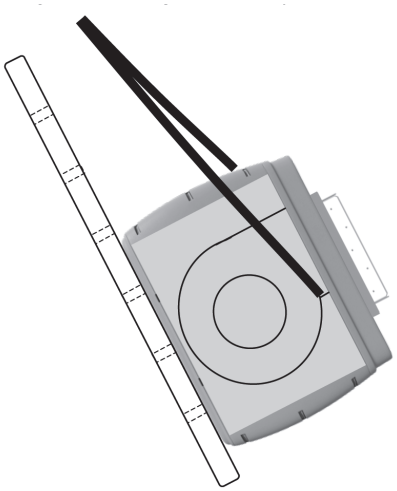
   (see diagram right)



3. Secure load rated lifting slings around the blower housing base (as shown right) and slide it up a ladder on its roof.

   Take care not to damage internal parts or scratch the roof, a slip sheet may be required.

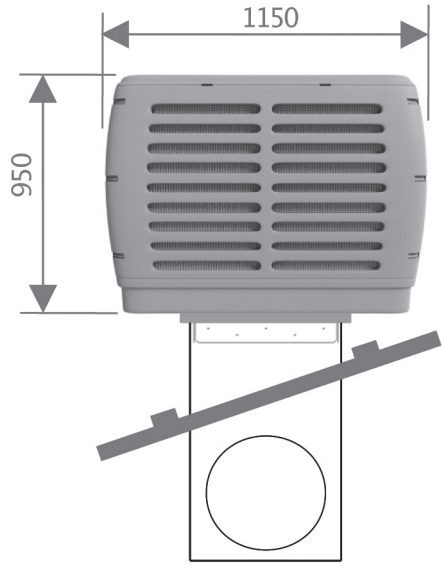
NOTE **Please be aware of the chassis extension, power loom, communications loom and winter seal when rotating, lifting and positioning.**



3.6 FITTING TO A METAL DROPPER DUCT

The base of the S Series cooler locates **inside** of the sheet metal dropper duct, size 550mm x 550mm. Secure on all four sides with suitable 10g screws, a minimum of two each side. When secure install all four pad assemblies.

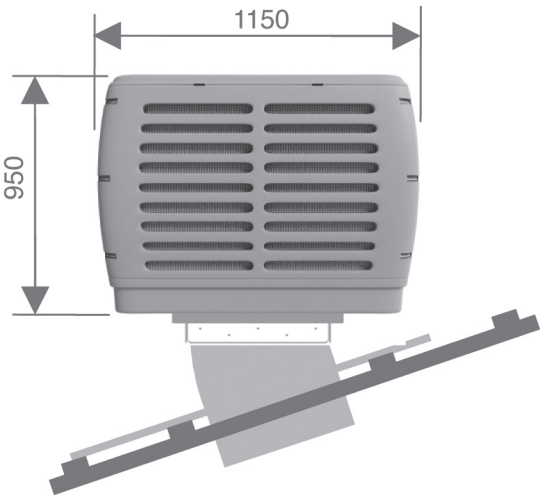
(see diagram right)



3.7 FITTING TO A PLASTIC DROPPER DUCT

The base of the S Series cooler locates **outside** of the plastic dropper duct. Secure on all four sides with suitable 10g screws, a minimum of two each side, through holes provided. When secure install all four pad assemblies.

(see diagram right)



4. WATER CONNECTION

4.1 INLET CONNECTION

The water inlet connection point is under the cooler base on the right hand side, when standing on the low side of the roof. Connection is via a 1/2” BSP male fitting.

4.2 TANK WATER QUALITY MANAGEMENT.

The Rinnai S Series cooler water level sensor automatically maintains the correct water level within the tank. The Rinnai S Series is programmed to periodically flush the tank and refill it with clean water and automatically maintain the water quality within the tank.

4.3 WATER DRAIN CONNECTION

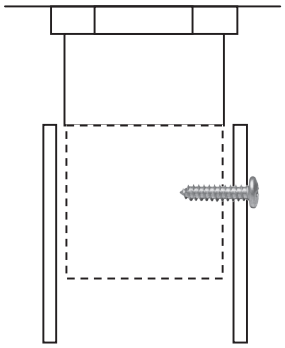
The Rinnai S Series cooler has a drainage connection point at the underside of the base,on the low side of the roof, with a 38.5mm spigot.

When the cooler’s discharge is likely to fall on a roof or catchment area for potable water, or water reuse, then a drain must be fitted. In some municipalities it is mandatory to fit a drain to the cooler. Check with the local authority regarding the regulations.

Where required Rinnai recommend the drain outlet be plumbed to a suitable point in order to disperse the waste water away adequately without causing damage or nuisance i.e. overflowing roof guttering, accelerated corrosion.

To connect a drain outlet use rigid PVC pipe, UV stabilised, with an internal diameter no less than 40mm. Secure to drain connection on unit with an 8g x ⅜ stainless steel screw.

(see diagram right)



Ensure any drain has a continuous fall, the joints and fittings are adequately sealed, and that all penetrations in and out of the roof cavity are sealed against water entry into the building.

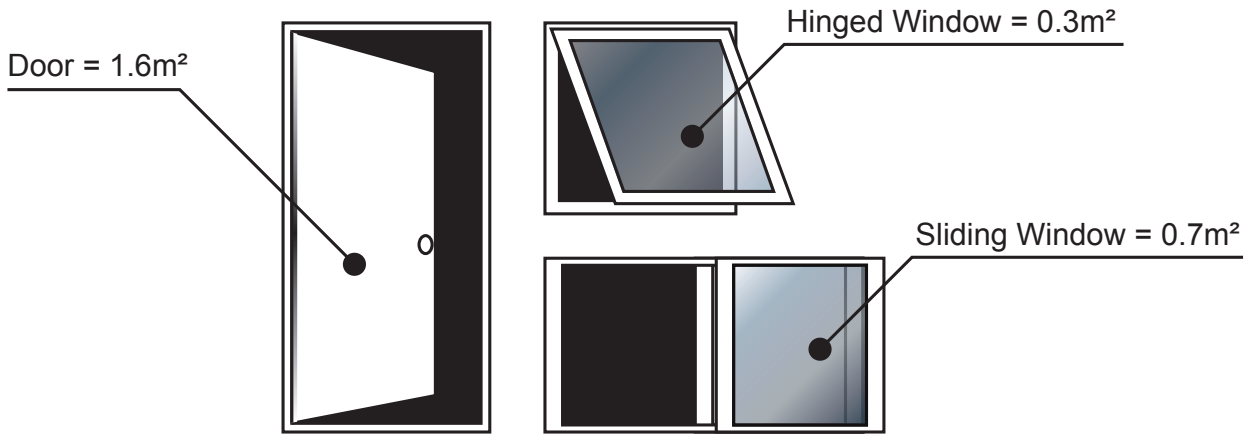
The drain pipe must also be properly supported along its entire run, and must not place strain on the Cooler’s outlet fitting or base.

For installations on tiled roofs where a drain may not be required, Rinnai recommend fitting a water distribution spreader to the Cooler’s drain outlet.

5. VENTILATION & SPECIFICATIONS

5.1 EXHAUST & VENTILATION

IMPORTANT **Exhaust fans may be required if insufficient free exhaust area exists. If the exhaust fan is the only exhaust or ventilation outlet, then its capacity should be at least equal to the Cooler's air output.**



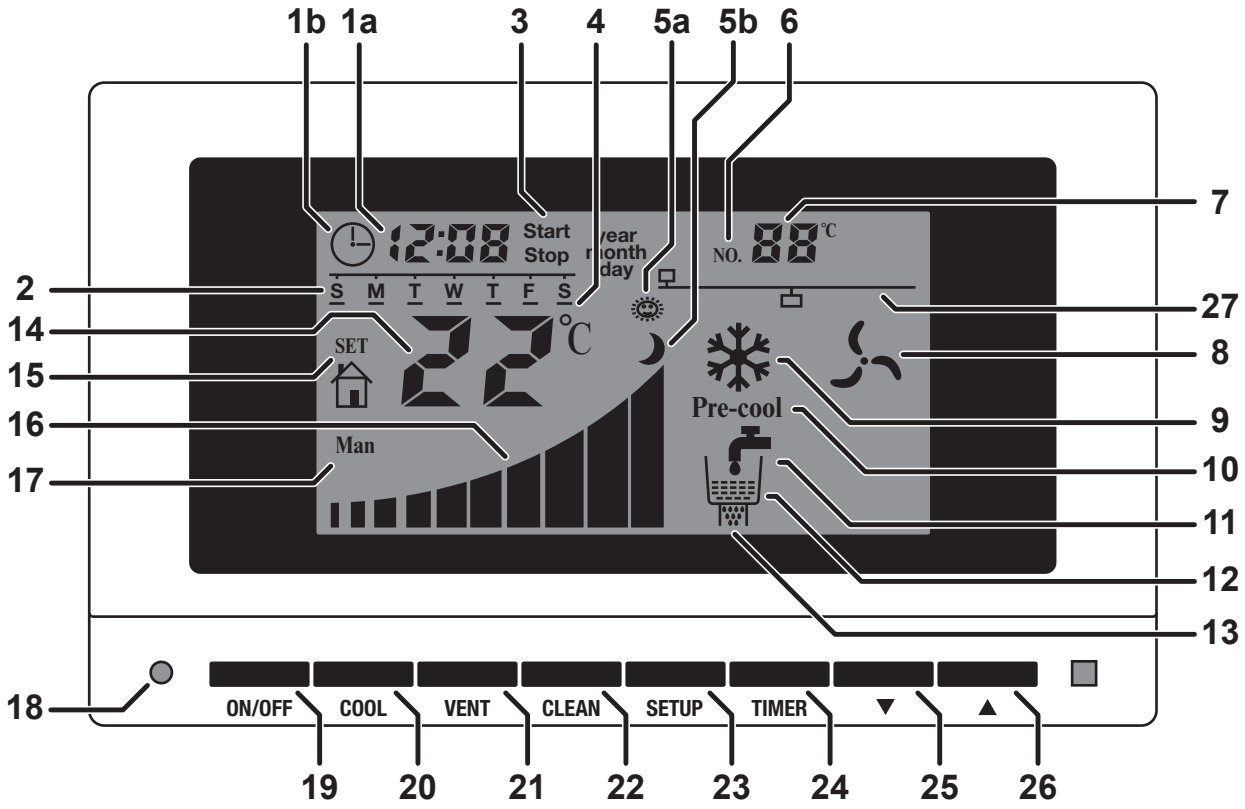
Average ventilation area provided by various openings when fully opened.

Model	Number of average size windows & doors *(suggestive only)*	Highest Fan Setting	Lowest Fan Setting
S10	One door and a hinged window	1.9 m²	1.1 m²
S20	Three sliding windows or one door & two hinged windows	2.3 m²	1.4 m²
S30	Four sliding windows or one door and four hinged windows	2.8 m²	1.7 m²

5.2 TECHNICAL SPECIFICATIONS

Model	Weight (kg)		Tank Capacity (litres)	Motor		Supply Circuit Rating Amps	Fan Impeller Size	Water Connection	Control Loom	Angle Of Dropper Box	Dump Drain Size Of Unit OD
	Dry	Wet		Watts	Amps Maximum						
S10	77	113	30	1500	9.0	10	18" x 16"	Flexible hose connection 1/2" BSP thread	Supplied	90°	38.5mm
S20											
S30					14.0	15					

6. FUNCTION OPTIONS



6.1 TIMER MODE SETTING

This function is used to set the availability options for timer ON/OFF settings.

NOTE **The factory default setting: all modes allow timer ON/OFF.**

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds. The “NO.” icon (6) will be displayed, and “01” will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until “16” is shown in multi-function display (7).
3. Press the Up or Down buttons (25 or 26) to select the required mode (00-03), which is shown in Temperature / Humidity display (14).

   “00” means timer function is prohibited for all modes, “01” means function is allowed only in auto mode, “02” means function is allowed in manual mode only and “03” means the function is allowed in all modes.
4. After setting, press the ON/OFF button (19) to save the setting and exit.

6.2 PRE-COOL FUNCTION

When the pre-cool function is set and the cooler starts in cool mode, the system will first start the water pump to wet the cooling pads without the fan operating. The fan will not start unit until the ‘pre-cool time period finishes.

In pre-cool mode, the Power Indicator (18) will flash Green, and the “Pre-cool” text (10) will also flash on the LCD. When the pre-cool function is finished, the Power Indicator (18) will stop flashing and glow steady, Green and the and the “Pre-cool” text (10) will vanish.

NOTE **If switched to Cool mode from Vent mode, the Pre-cool function will then not be applied.**

Factory default is 5 mins.

Set this function as follows:

1. With power to the unit ON plug the communication loom into the wall control and press the ON/OFF button (19) within 5 seconds of connection. the “NO." icon (6) will be displayed, the SET icon (15) will flash, and ‘01’ may displayed in the multi-function display (7). If '01' is not displayed, press the SETUP button (23) repeatedly until '01' is shown.

2. Set the pre-cooling period by pressing the Up or Down buttons (25 or 26). The period range is from 00-10 minutes and will be shown in Temperature / Humidity display (14), the factory default is normally “05” which means the Pre-cool function runs for 5 minutes.

3. After setting, press the ON/OFF button (19) for 3 seconds to save the setting and exit. When saved successfully, “88” will appear in both the multi-function display (7) and the Temperature/Humidity display (14).

NOTE

If the ON/OFF button (19) is pressed within 3 seconds, the setting will then NOT be saved.

6.3 VENT FUNCTION WHEN OFF (FACTORY DEFAULT: OFF)

When this function is set, the fan will continue to run for a predetermined period without the water pump to dry the cooling pad after the cooler turns OFF.

The controller will alert with a tone when the running period finishes.

NOTE

When cooler is in auto control, this function will then NOT be applied.

Factory default is OFF.

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds. The “NO." icon (6) will be displayed, and “01” will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until “15” is shown in multi-function display (7).
3. Set the VENT OFF period by pressing the Up or Down buttons (25 or 26). The period range is from 00-30 minutes and will be shown in Temperature / Humidity display (14), “00” means the function is off.
4. After setting, press the ON/OFF button (19) to save the setting and exit.

6.4 AUTO RESTART AFTER POWER FAILURE FUNCTION

If power is lost during operation setting this function to ON, allows the controller to record the running state of the cooler when the power was lost.

When the power to the cooler is later restored, the cooler will then re-start automatically to its previous operational state.

WARNING

When this function is set to ON, the cooler may re-start when the premises are unoccupied, resulting in inadequate ventilation. Factory default is OFF.

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds. The “NO.” icon (6) will be displayed, and “01” will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until “17” is shown in the multi-function display (7).
3. Press the Up or Down buttons (25 or 26) to select the required mode (00-01), which is shown in Temperature / Humidity display (14).

   “00” means the function is OFF and “01” means the function is ON.
4. After setting, press the ON/OFF button (19) to save the setting and exit.

6.5 PUMP ONLY

With the cooler in either a running or standby state, when this function is set to ON, pressing the COOL button (20) for 6 seconds, will start the water pump. The pump will run independently of operational state, the cool icon (9) will flash, the water level indicator (19) is shown when water is detected in the tank.

Press the ON/OFF button (19) to stop the pump and place the unit back into standby mode.

WARNING

This function can be used in fire emergencies to wet cooling pads to help prevent burning, and to minimise the spread of smoke.

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds. The “NO.” icon (6) will be displayed and “01” will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until “19” is shown in the multi-function display (7).

3. Press the Up or Down buttons (25 or 26) to select the required mode (00-01), which is shown in Temperature / Humidity display (14).

   “00” means function OFF and "01” means function ON.

4. After setting, press the ON/OFF button (19) to save the setting and exit.

6.6 TIMER AUTO-CLEAN FUNCTION

When Auto-Clean timer function is set, the system will start the cleaning function after the cooler has run for a predetermined number of hours in cool mode (N). The cleaning function will automatically stop when the function is complete.

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds, the “NO." icon (6) will be displayed on the controller and ‘01’ will flash in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until ‘12’ is shown in the multi-function display (7).
3. Press the Up or Down buttons (25 or 26) to select the required interval period in hours between auto-clean functions, which is shown in Temperature / Humidity display (14).

   The interval period can be set between 0 - 99 hours.

   NOTE **Factory default setting for the interval is 08 hours.**

4. Press the ON/OFF button (19) to save the setting and exit.

6.7 SET CLEAN FUNCTION WHEN ON

When this function is set, the unit will complete a clean function when first turned on. This function will automatically turn off when the clean function is finished.

NOTE **When cooler is in VENT mode, this function will not be available.**

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds, the “NO." icon (6) will be displayed, and ‘01’ will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until ‘13’ is shown in the multi-function display (7).
3. Press the Up or Down buttons (25 or 26) to select the required mode (00-01) which is shown in Temperature / Humidity display (14).

   “00” means function OFF and "01” means function ON.

   NOTE **The factory default is when OFF.**

4. After setting, press the ON/OFF button (19) to save the setting and exit.
5. Press the CLEAN button (22) to stop the cleaning function.

6.8 SET CLEAN FUNCTION WHEN OFF

When this function is set, the clean function will be started when the cooler switches off. This function will automatically turn off the unit when it finishes.

NOTE **When cooler is in VENT mode, this function will not be available.**

Set this function as follows:

1. In standby mode, press the SETUP button (23) for 3 seconds. The “NO." icon (6) will be displayed and “01” will be displayed in the multi-function display (7).
2. Press the SETUP button (23) repeatedly until ‘14’ is shown in the multi-function display (7).
3. Press the Up or Down buttons (25 or 26) to select the required mode (00-01) which is shown in Temperature / Humidity display (14).

   “00” means function OFF and "01” means function ON.

   NOTE **The factory default is when OFF.**

4. After setting, press the ON/OFF button (19) to save the setting and exit.
5. Press the CLEAN button (22) to stop the cleaning function.

7. COMMISSIONING CHECKLIST

IMPORTANT

Switch OFF the power and unplug the Cooler before touching any wiring. Care MUST BE taken to ensure electrical components have been isolated before performing any service work, i.e. water inlet valve, Servo Seal motor. Only an electrically qualified technician should carry out any service to electrical wiring.

7.1 ISOLATING SWITCH

The Rinnai S Series coolers have an external power-isolating switch to facilitate servicing, which is located on the control box. To access the switch, remove the front pad from the cooler. Always test for electrical voltage before commencing any work on the cooler.

7.2 CHECKLIST

- The damper is not catching and opens fully.
- The isolating valve on the water supply is turned ON.
- The water tank fills with water and the water inlet valve closes when the tank is full.
- There is no foreign matter in the water tank or fan housing.
- The pads are correctly located.
- The pump operates when turned ON at the Wall Control.
- The fan operates through the entire speed range.
- Even water distribution with the pads in position and the Cooler in operation.
- The water drains completely from the tank and that any external drain piping is not blocked or restricted.

NOTE

New cooling pads should be thoroughly flushed before use so, following commissioning, run the system for 30 minutes with the fan on low speed. Turn the system "OFF" and press the "CLEAN" button to dump the water. This will prime the pads, flush out some of the new pad odour, and remove any foreign matter that may have settled in the system during transport.

7.3 WHAT IF THE FAN MOTOR WILL NOT START?

Check:

- The 10/15 Amp fuse in the meter box has not blown.
- The Cooler's 3-pin supply plug is correctly located in the power socket.
- For power at the power socket (plug in another appliance and test).
- The isolating switches at the unit and the supply power socket are turned ON.
- The unit is turned ON at the Rinnai Wall Control.
- The fan is not in a delay due to tank filling or pad Pre-Wet operation.
- The motor is not hot, causing the auto-reset thermal overload switch in the fan motor to open circuit.
- That all electrical connections are secure, and if the motor will not start, call Rinnai for service.

7.4 WHAT IF THE PUMP WILL NOT START?

Check:

- The 10/15 Amp fuse in the meter box has not blown.
- The Cooler's 3-pin supply plug is correctly located in the power socket.
- For power at the power socket (plug in another appliance and test).
- The isolating switches at the unit and the supply power socket are turned ON.
- The unit is turned ON at the Rinnai Wall Control.
- The pump is not in a delay due to tank filling operation.
- The pump impeller is not blocked or obstructed.
- All electrical connections are secure, and if the pump will not start, call Rinnai for service.

Rinnai Australia Pty Ltd

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National Help Line
Tel: 1300 555 545*
Monday to Friday, 8.00 am to 5.00 pm EST.

**Cost of a local call may be higher from a mobile phone. (National calls from public phones in Australia are free.)*

For further information visit **www.rinnai.com.au** or email **enquiry@rinnai.com.au**

Rinnai has a Service and Spare Parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance. If your appliance requires service, please call our National Help Line. Rinnai recommends that this appliance be serviced every 2 years.

With our policy of continuous improvement, we reserve the right to change, or discontinue at any time, specifications or designs without notice.